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THE CENTER LINE
MONTANA HIGHWAY COMMISSION

Vol. VII., No. 4 April, 1964

Johnson Appointed Acting Chief

Paul M. Johnson assumed the duties of Acting State Highway Engineer on April 1, when Fred Quinnell, Jr., was granted an extended leave of absence due to poor health. Quinnell acted upon the advice of his physician.

Johnson has been District Engineer in Billings since 1957 and first started his employment with the Montana Highway Department in 1932. In 1945, he left the department to accept a position with the Federal Housing Administration and later managed the loan department of Western Mortgage and Insurance Co. in Billings and in 1951 purchased the Allied Service and Supply Co. in Billings.

In 1945 he returned to the Montana Highway Department as Division Construction Engineer in Billings and in 1957 was named District Engineer.

He has a degree in Civil Engineering from Montana State College, is a member of, and past master of King Solomon's Lodge No. 9 of Helena. He is also a member of Merriam Chapter of Eastern Star in Helena and of the York Rite and Al Bedoo Temple in Billings.

He and Mrs. Johnson have a son who is an engineer with the California Highway Department, and he has been selected to attend the Traffic Course at Yale University next year. They also have a daughter, Donna, who is married to Robert Brown and they live in Denver.

Fred Quinnell can claim the distinction of having the longest continuous service in the Department, which is 37 years. He worked with Mel Wickman, Bill Brittain, Milo Lahn and others back in the days when the clamour was to get Montana 'out of the mud.' He came up the ladder to become Division Engineer in Glendive, then Butte, then into Helena in 1956 as Administrative Engineer and in 1957 he was promoted to the State Highway Engineer's position.

More miles of new highway have been built under his term than any previously, and during his term he was introduced to new terms such as limited access, accel and dual lanes, median barriers, inspection in depth, insufficient justification and many other terms which heretofore were alien to Montana highway building.

The entire Department wishes you a speedy and complete recovery Fred, and we want you to know that all 2,200 of us will miss you while you're recovering.

A TRIBUTE

Some step down, others carry on.
It is now, and has ever been so.
A job well done, like a monument
Is there so mankind will know.
That he in passing, left a heritage
For every man to employ.
Whether highway or trail, each to his need
They are here for each to enjoy.
So one must step down, the other go on.
Who can say which is best?
In a few short years, the one who goes on
Will also have earned his rest.

J. B. Rauch

GOVERNOR
Tim Babcock

STATE HIGHWAY COMMISSION
Roy L. Sorrells ..... Chairman
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George M. Gosman ..... Member
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STATE HIGHWAY DEPARTMENT
Fred Quinnell, Jr. ..... State Highway Engineer

EDITORIAL STAFF
George T. Sime ..... Editor
Ernest A. Neath ..... Associate Editor
Chet Dreher ..... Photographer
Kenneth L. Martello ..... Artist

Material in the Center Line May Be Copied and Reproduced

Award Sheet Project No.	Amount	Bidder	Letting of March 25, 1964 Address
I 15-2(20)127 Butte Urban & E. Butte Interch. (Seeding) Silver Bow County	$ 4,130.38	N. D. Robinson	Missoula, Mont.
I-IG 90-1(29)71 Tarkio-East (Structure) Mineral County	$ 89,354.04	Schultz & Lindsay Const. Co.	Fargo, N. Dak.
I-IG 90-2(14)105 U2 Van Buren St. in Missoula to Bonner (Six structures) Missoula County	$ 332,998.16	Hightower & Lubrecht Const. Co.	Missoula, Mont.
I 90-2(20)110 Bonner to Clinton (Signing) Missoula County	$ 16,504.99	Skinner Enterprises	Helena, Mont.
I 94-1(7)50, I 94-2(7)51 & F 114(6) Custer-E., Big Horn-Hysham & the Hysham Conn. to Interstate (Signing) Yellowstone & Treasure Cos.	$ 26,608.11	Tschache Bros.	Bozeman, Mont.
S 9(10) Boulder-Cardwell (Reshape, GS, PMS) Jefferson County	$ 98,377.59	R. J. Sundling & Son, Inc.	Livingston, Mont.
S 107(9) Ledger E. & W. (G, GS, PMS, Drain & Structure) Pondera County	$ 367,695.01	R. J. Sundling & Son, Inc.	Livingston, Mont.
S-SG 218(2) 39th St. & Russell St. So. of Missoula (G, GS, PMS, Drain & 3 Structures) Missoula County	$ 429,759.19	Sletten Const. Co.	Great Falls, Mont.
S 400(3) Grantsdale-Sleeping Child Creek (G & Drain) Ravalli County	$ 505,813.15	John Paola, Inc.	Kalispell, Mont.
S 426 (3) Logan-N. W. (Structure) Gallatin County	$ 78,182.56	Haggerty-Messmer Co.,	Bozeman, Mont.
SMP 1399-64 Various (Crushing & Stockpiling) Carter, Dawson, Fallon, McCone & Wibaux Counties	$ 207,630.00	Richardson Const. Co., Inc.	Miles City, Mont.

TOUR MADE OF MALTA, GLASGOW

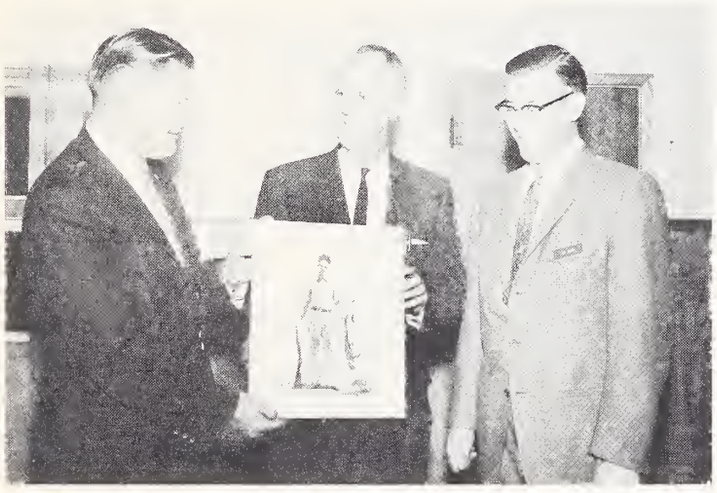
A series of very pleasant and successful meetings was held in Northeastern Montana during March, and under the sponsorship of the Malta Jaycees, the Highway 191 Association, the Malta Chamber of Commerce, the Glasgow Kiwanis Club and the Glasgow Chamber of Commerce, the officers and men at the Glasgow Air Base, and the Wolf Point Chamber of Commerce, these meetings were held on two successive days.

A fine exchange of ideas and information, and good fellowship was experienced by the Highway Department men in attendance.

This Coles Studio photo shows Commissioner Bud Nass presenting a certificate of appreciation to Joe Hocking, who has been very active in civic circles in Glasgow and a long time promoter of good highways. Looking on is Bill Holter, on the left, who is president of the Glasgow Chamber of Commerce, and on the right is Ted James, Commissioner from Great Falls.

In the early days of the New Deal, when the Fort Peck Dam was in the planning stages, one of the most famous of Montana's photographs was snapped showing a long lean young man proudly holding up the trophy he had bagged with his trusty Winchester.

If you note a similarity between this young man and our Highway Commissioner from that area, it is so.



During the evening meeting with the Glasgow Chamber of Commerce, the able president of that organization, Bill Holter, presented an enlargement of the famous picture to Bud Nass. Ted James seems to be enjoying the picture.

Clarence R. Mackay of Billings has been appointed Division Construction Engineer for the Billings Division of the Montana Highway Depart ment.

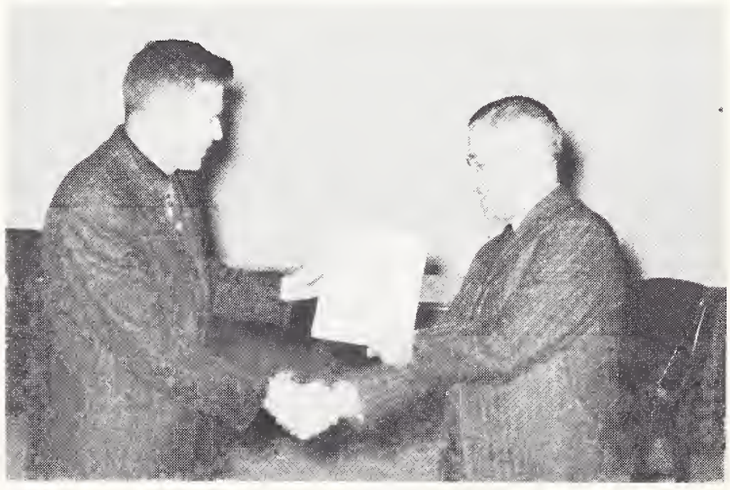
Mackey, 43, is a native of Grass Range and immediately upon his graduation from Grass Range High School in 1933, he went to work for the Highway Department as a gravel checker. He then went to an engineering crew as a chairman until he enlisted in the Army Engineers in April, 1942. He served with the 351st Army Engineer Regiment and was in the landing party on Omaha Beach and was in the advance party for the liberation of Paris.

He returned to the Highway Department upon his completion of service in December of 1945, and went to Lewistown as a Rodman. He became instrumentman in 1948, and in 1949 was transferred to Billings.

He was promoted to Project Engineer in 1950 and in 1956 was named Resident Engineer. His appointment as Division Engineer was made effective as of April 1.

Mackey is a Registered Professionad Engineer, a member of the Montana Society of Engineers, and of Ashlar Lodge No. 29, A. F. & A. M., Al Bedoo Shrine and the Elks lodge.

The Mackey's are the parents of two sons.



Tom V. Bogy (right) Paving Engineer for Montana Highway Department is being presented a Life Membership in the American Society of Civil Engineers. The presentation is being made by Mr. Lee Walker, National Director, of Great Falls.

Tom has been an active member of A. S.-C. E. for over 35 years. This award is presented by the A.S.C.E. in recognition of a member's overall contribution in effort, time and sacrifice to further the professional and technical aspects of the Society.

Five most important words— I am proud of you.

Four most important words—What is your opinion?

Three most important words—If you please.

Two most important words—Thank you.

Least important word—I.

—*Tallus V. Walker*

TWENTY-FOUR YEARS AGO

Center Line of April, 1940 was put out by the Bozeman Division. Fred Brown was Division Engineer at that time and he had a very able crew to handle his journalistic responsibilities.

Contributors to the issue were J. M. Hamilton, one of the greatest Montana historians and later the beloved Dean of Men at Montana State College.

Lew Callaway a former Chief Justice of the Montana Supreme Court.

Don Anderson a native Bozemanite, and presently is the manager of the Lee Newspapers.

Lewis Terwilliger, a former Principal of Schools of Livingston.

Dr. A. L. Strand, at that time President of Montana State College.

There is a word in the publication about Bert Moore, Kenny Jones, Austin Baily, Tom Watt and other old timers.

The concluding article was a Materials Laboratory Progress Report on an investigation of the adhesiveness of bituminous materials to locally available aggregates in the presence of moisture.

The present Center Line office has only a few copies of the old Center Line, and we would be most grateful to receive more old issues from anyone.

FEB. AND MARCH SERVICE AWARDS

Thirty-two employees received recognition for longevity in February, with Don Tash and Ted Nielson heading the list with 30 years of service to the Department. Richard Hobbs and Philip Schmeltzer received 20-year pins and Jack Benson, Bill Fogarty, Owen Nordtome, Howard Stockwell, Clarence Todd and Walter Wiers received 15-year pins. Eleven 10-year pins and 10 five-year pins were also presented.

Thirty-seven employees received recognition with the Montana Highway Department in March. R. H. Gagle, John J. Murrill and R. W. Stoddard, 30 years service. Dan Corr and Erick Mueller, 25 years; Arthur Thompson 20 years. Eight received 15-year pins; ten, 10-year pins and 13, five-year pins.

MORE FAN MAIL

Montana Highway Department
Butte, Montana
Gentlemen:

We would like to commend the assistance rendered by one Virgil Triplett of the Department, when one of our trucks broke down on Highway 43 at the Big Hole National Battle Ground.

He was kind enough to get help back from Wisdom where a tow truck was hired. He was very courteous and is a credit to your department.

Yours truly,
CLAUSEN REFRIG. CO.

Director of Personnel
Montana Highway Department
Helena, Montana
Gentlemen:

I would like to offer my thanks for a "job well done" in rendering assistance to a stranded motorist. Mr. T. A. Kountz of the Timber Creek maintenance section rendered emergency assistance in getting my car started after I had been stranded on Montana Highway 20 on March 4, 1964. Matters could have been more complicated because of approaching foul weather and the fact that I had my 14 mo. son and wife to be considered.

My gratitude is extended to the Director of Personnel and all his subordinates in the Montana Highway Dept. who help in maintaining the high standard of professional courtesy and service that provided this assistance.

Respectfully yours,
ARTHUR S. HENRICK
Great Falls, Mont.

* * *

The Department is very proud of the fine public relations being done in the field.

Fred Quinnell
Chief Engineer
Montana Highway Department
Helena, Montana
Dear Fred:

Yesterday we completed our program of daily road reports from the Butte Division office. I want to express my appreciation for

MAP INDEX NUMBER	PROJECT NUMBER	PROBABLE COMPLETION DATE	LENGTH , TYPE OF CONSTRUCTION AND LOCATION
	FEDERAL AID PRIMARY PROJECTS		
101	F 33 (6) & F 108 (9)	9-30-64	8.0 miles grade, drain, aggregate & plant mix bituminous surface. (U.S. 87-S. of Roundup).
102	F 50 (10) & F 267 (13)	10-15-64	9.2 miles aggregate & plant mix bituminous surfacing. (Montana 20-E. of Lincoln).
103	F 152 (7) U 2	8-31-64	One 213 ft. prestressed concrete beam bridge-Milk River. One large structural plate pipe-Indian Service Irrigation Canal. (U.S. 2-S. of Harlem).
104	F 193 (13)	5-15-64	11.6 miles grass seeding. (Montana 16-Medicine Lake N.).
	F 135 (18)	5-15-64	0.6 miles seeding & mulching. (U.S. 10-W. of Miles City).
	F-FG 68 (12) U 1	9-1-64	2.7 miles (four-lane divided) grade, drain, surface, plant mix bituminous surface. Signing & delineation. (U.S. 10A-E. of Anaconda).
	F-FG 68 (12) U 2	5-15-64	Four prestressed concrete beam bridges, dual 70 ft. Clark Fork & dual 148 ft. NP RY. (U.S. 10A-E. of Anaconda).
	ROW-F-FG 68 (8)	5-15-64	2.7 miles fencing. (U.S.10A-E. of Anaconda).
107	F 134 (6)	9-30-64	0.7 miles grade, drain, surface & plant mix bituminous surface. (U.S. 212-Laurel S.).
108	F 219 (18)	6-15-64	0.2 miles grade, drain, aggregate & plant mix bituminous surface. One 65 ft. prestressed concrete beam bridge-Rattlesnake Creek. (U.S. 10-In Missoula).
109	F 144 (8)	5-15-64	4.7 miles grass seeding. (U.S. 2-Glasgow E.).
111	F 149 (19) & F 252 (15)	9-15-64	9.8 miles grade, drain, surface & plant mix bituminous surface. (U.S. 87-S.W. of Fort Benton).
112	F 191 (24)	8-31-65	5.9 miles grade, drain, aggregate & plant mix bituminous surfacing. (U.S. 93-S. of Kalispell).
	F 191 (19) U 2	9-15-64	5.5 miles seal coat oiling. (U.S. 93-S. of Kalispell).
113	F 217 (11)	10-15-65	9.2 miles grade, drain, aggregate & plant mix bituminous surface. Relocate portion of NP RY tracks. (U.S. 89-S. of Livingston).
114	F 245 (16)	10-30-64	5.3 miles grade, drain, aggregate & plant mix bituminous surface. One 112 ft. prestressed concrete beam bridge-Deer Creek. (Montana 16-N.E. of Glendive).
115	U FG 228 (16)	5-15-64	1.5 miles grade, drain, cement stabilized base, surface, concrete pavement, plant mix bituminous, seal coat oil. One concrete underpass - NP RR. (U.S. 10-In Billings).
	F 228 (19) U 1	9-1-64	0.6 mile grade, drain, aggregate & plant mix bituminous surface. Signing & delineation. (U.S. 10-West Billings Interchange).
	F 228 (19) U 2	9-1-64	0.6 miles fencing. (U.S. 10-West Billings Interchange).
	F 228 (21)	5-31-64	1.5 miles signing, signals & lighting. (U.S. 10-In Billings).
116	F 264 (8)	10-31-64	6.4 miles grade, drain, aggregate & plant mix bituminous surfacing. (U.S. 12-Townsend E.).
117	F 157 (16) U 3	9-15-64	5.0 miles seal coat oiling. (Montana 22-N.W. of Miles City).
118	F 149 (20)	6-30-64	0.4 miles signing & delineation. (U.S. 87-N. of Great Falls).
	F 395 (3) & F 395 (5)	6-30-64	1.5 miles signing & delineation. (14th & 15th St. - In Great Falls).
119	F 235 (25)	5-15-64	7.6 miles grade, drain, surface, plant mix bituminous surface. One 81 ft. prestressed concrete beam bridge-Otter Creek. (U.S. 87-W. of Stanford).
	F 235 (31)	5-15-64	4.0 miles plant mix bituminous surface. (U.S. 87-W. of Stanford).
120	F 114 (5)	9-1-64	2.4 miles grade, drain, surface & plant mix bituminous surfacing. (Hysham connection to Interstate).
	F 114 (6)	10-30-64	2.4 miles signing & delineation. (U.S. 10-Hysham Connection to Interstate 94).
121	F FG 219 (16) U 1	5-15-64	9.8 miles grade, drain surface & plant mix bituminous surfacing. (U.S. 10A - N.W. of Miseoula).
	F 219 (19)	5-15-64	9.8 miles seeding & mulching. (U.S. 10A-N.W. of Missoula).
122	F 9999 (1)	5-15-64	119 miles signing. (U.S. 10,10A, & 93-Missoula to Kalispell).
123	F 191 (20) U 1	5-15-64	7.3 miles (2.5 miles grade & drain) surface, plant mix bituminous & seal coat oiling. (U.S. 93-N. of Polson).
124	F 246 (13)	11-15-64	9.2 miles grade, drain, aggregate & plant mix bituminous surfacing. (Montana 20S-S.E. of Circle).
126	U 227 (6) & F 388 (6)	5-15-64	2.6 miles street widening, curbe, plant mix bituminous surfacing, traffic signals & signing. (10th Avenue S.ByPass-In Great Falls).
	F 388 (7)	6-30-64	0.6 miles highway lighting. (10th Avenue S.-In Great Falls).
127	F 184 (15)	5-15-64	1.1 miles seeding & mulching. (U.S. 10-N. of Deer Lodge).
128	ERFO 41 (1) * *	1964	1.0 miles grade, drain, aggregate & plant mix bituminous surfacing. One 36 ft. concrete slab bridge-Cougar Creek. (U.S. 191-N. of W. Yellowstone).
129	F 238 (8) U 3	9-15-64	8.5 miles seal coat oiling. (Montana 287-N. of Wolf Creek).
133	F 153 (9)	5-15-64	9.0 miles grass seeding. (U.S. 2-E. of Dodson).
134	F 176 (7)	7-30-64	5.3 miles grade, drain, surface & plant mix bituminous surfacing. (Montana 20-E. of Simms).
138	F 210 (3)	5-15-64	6.0 miles plant mix bituminous surfacing. (U.S. 89-N.W. of Browning).
	F 227 (5)	5-15-64	4.0 miles plant mix bituminous surfacing. (U.S. 89-N.E. of Browning).
	F 227 (6)	5-15-64	4.3 miles grade, drain, surface, & plant mix surfacing. (U.S. 89-N.W. of Browning).
139	FHP 13-3 (1)*	1964	4.1 miles grade, drain & base. One 60 ft. reinforced concrete bridge-Bear Creek. One 26 ft. concrete slab bridge - Devil Creek. (U.S. 2-S.E. - E. Glacier).
140	F 209 (4)	9-15-64	5.5 miles grade, drain, aggregate & plant mix bituminous surface. Four 20 ft. concrete bridges. (U.S. 191-W. of Bozeman).
141	F 86 (22)	5-15-64	0.8 miles seeding & mulching. (U.S. 10-S.W. of Miles City).
142	F 315 (17)	5-15-64	12.0 miles grass seeding. (Montana 24-S.E. of Fort Peck).
	F 315 (18)	5-15-64	11.4 miles grass seeding. (Montana 24-S.E. of Fort Peck).
145	F 157 (19)	7-15-64	10.9 miles, grade, drain, surface, & plant mix bituminous surface. Widen one 164 ft. Concrete T Beam Bridge to 28 ft. roadway. S. Fork Sunday Creek. One 122 ft. prestressed concrete beam bridge - N. Fork Sunday Creek. (Montana 22-N.W. of Miles City).
	FEDERAL AID SECONDARY PROJECTS		
201	S 311 (5)	8-31-64	0.9 miles grade, drain, aggregate & road mix bituminous surface. One 213 ft. prestreseed concrete beam bridge-Milk River. (S. of Chinook).
	S 58 (6)	8-31-65	1.1 mile grade, drain, aggregate & plant mix bituminous surface. One 650 ft. welded steel plate girder bridge-Flathead River. One 128 ft. prestressed concrete beam overpass - NP RY. (Perma North).
	S 236 (8)	8-30-64	1.2 miles grade, drain, surface. One 562 foot riveted plate girder bridge. (N. of U.S. 10 & Montana 47).
204	S 316 (11)	9-30-64	7.6 miles grade, drain, aggregate & plant mix bituminous surfacing. (N. of Cut Bank).
205	S 318 (4) & S 347 (11)	8-31-65	8.2 miles grade, drain, aggregate & plant mix bituminous surfacing. (Ekalaka S.).
	S 318 (3) & S 347 (10)	8-31-64	8.2 miles fencing. (Ekalaka S.).
206	S 192 (3)	5-15-64	Dual prestressed concrete beam bridges - I 90 Separation. (S.W. of Billings).
	S-SG 192 (4) U 1	9-1-64	1.0 miles grade, drain, aggregate & plant mix bituminous surface. Signing & delineation. (Connection to W. Billings Interchange).
	S-SG 192 (4) U 2	9-1-64	1.0 miles fencing. (Connection to W. Billings Interchange).
	S-SG 192 (5)	9-30-64	One 190 ft. prestressed concrete beam overpass - NP RY. (S.W. of Billings).
207	FHP 5-1 (1) 2 (2) *	1964	13.8 miles plant mix bituminous surfacing. (S. of Troy).
208	S 18 (6)	10-30-64	7.3 miles grade, drain, aggregate & plant mix bituminous surface. One 112 ft. prestressed concrete beam bridge-Musselshell River. (Twodot S.).
209	FHP 11-1 (2) *	1964	32.5 miles plant mix bituminous surfacing. (U.S. 12-Lolo to Idaho State Line).
210	S 359 (7)	10-15-64	3.0 miles grade, drain, aggregate & plant mix bituminous surfacing. One 50 ft. treated timber bridge-Drainage. (Glendive S.).
211	ERFO 41 (1) **	1964	15.6 miles grade, drain, aggregate & plant mix bituminous surfacing. Two concrete slab bridges, 75 ft.-Grayling Creek & 124 ft. - Beaver Creek. Widen 83 ft. concrete girder bridges-Cabin Creek. (N.W. of W. Yellowstone).
212	S-SG 218 (2)	9-30-65	0.6 miles grade, drain, aggregate & plant mix bituminous surfacing. One 34 ft. concrete underpass-Dakota Street. Two 38 ft. steel underpasses - CMSTP&P RR.
	S 218 (7)	6-15-64	1.0 mile grade, drain, aggregate & plant mix bituminous surface. (Russell St.-S. of Missoula).
213	S 301 (13)	9-1-64	5.0 miles grade, drain, aggregate & plant mix bituminous surface. (N.W. of Havre).
214	S 65 (6)	5-15-64	4.9 miles grade & drain. One 245 ft. prestressed concrete beam bridge - Swan River. (S. of Big Fork).
	S 65 (7)	9-15-64	4.9 miles aggregate & plant mix bituminous surface. (S. of Big Fork).
215	ROW S 370 (13)	5-15-64	Reset 239 rods of fencing. (W. of Wilsall).
	S 370 (15)	5-15-64	6.7 miles grade, cement stabilized base, drain, plant mix bituminous & seal coat oiling. (W. of Wilsall).
216	S 307 (14)	9-1-64	6.1 miles grade, drain, aggregate & plant mix bituminous surface. Widen three timber bridges to 28 ft.-Little Battle Creek, two 75 ft.-Butte and Cowboy Steel Creek. (S.E. of Geraldine).
217	S 389 (3)	5-15-64	2.7 miles, grade, drain, bituminous stabilized base, aggregate & plant mix bituminous. (Sidney Loop).
218	S 417 (3)	9-15-64	7.3 miles grade, drain, aggregate & plant mix bituminous surface. (S.E. of Plentywood).
219	S 85(00) U 2 & S 85 (3) U 2	5-15-64	Three prestressed concrete beam bridges. One 92 ft. & 71 ft.-Horse Prairie Creek. One 71 ft.-Medicine Lodge Creek. (Armstead W.).
220	S 192 (7)	9-30-64	3.2 miles grade, drain, aggregate & plant mix bituminous surface. (N.E. of Laurel).
221	S 129 (8)	5-15-64	7.0 miles grade, drain, surface & plant mix bituminous surfacing. (Rapelje S.).
222	S 401 (3) U 1	5-15-64	8.2 miles grade, drain & aggregate surfacing. (Plevna S.).
	S 401 (3) U 2	6-30-64	Two 132 ft. prestressed concrete beam bridges - Sandstone & S. Fk. Sandstone Cr. (Plevna S.).
223	S 290 (16) & S 307 (12)	7-1-64	4.9 miles grade, drain, surface, & plant mix bituminous surfacing. Widen three timber bridges. (N. of Geraldine S.).
224	S 413 (3)	10-30-64	1.9 miles grade, drain, aggregate & plant mix bituminous surface. One 102 ft. prestressed concrete beam bridge - Flint Creek. (S. of Drummond E.).
	S 414 (3)	10-30-64	2.5 miles grade, drain, aggregate & plant mix bituminous surface. (S. of Drummond W.).
	S 413 (2)	8-1-64	1.9 miles fencing. (S. of Drummond E.).
	S 414 (2)	8-1-64	2.5 miles fencing. (S. of Drummond W.).
225	S 200 (5)	5-15-64	13.2 miles (part aggregate surface) plant mix bituminous surfacing. (Froid W.).
226	S 418 (3)	8-31-64	0.7 miles grade, drain & aggregate surface. One 245 ft. prestressed concrete bridge-Poplar River. (N.E. of Poplar).
227	S 407 (2)	10-31-64	0.3 miles grade, drain & aggregate surface. One 457 ft. welded steel plate girder bridge - Clark Fork. (S.E. of Alberton).
228	S 361 (12)	7-15-64	6.6 miles grade, drain, surface, & plant mix bituminous surfacing. (Girard W. to E.).
229	S 419 (3)	11-15-65	0.9 mile grade, drain, aggregate surface. 0.7 mile plant mix bituminous surface. (Approach I 90 Separation-W. of Alberton).
230	S 15 (10)	9-1-64	15.0 miles plant mix bituminous surface. (S. of Flaxville).
231	S 2 (15) U 2	9-15-64	1.8 miles seal coat oiling. (N. of Helena).
232	S 68 (5) U 2	9-15-64	13.0 miles seal coat oiling. (Winifred N.).
233	S 259 (2) U 2	9-15-64	9.0 miles seal coat oiling. (N.E. of Forsyth).
234	S 131 (3) U 2	9-15-64	6.5 miles seal coat oiling. (Brady E.).
235	S 339 (9) U 2	9-15-64	6.6 miles seal coat oiling. (S. of Chester).
236	S 9 (10)	8-28-64	3.7 miles reshape, aggregate and plant mix bituminous surface. (South of Boulder).
237	S 107 (9)	11-1-64	7.0 miles grade, drain, aggregate and plant mix bituminous surface. Widen timber bridge to 32 ft. roadway. (N.E. of Conrad).
238	S 400 (3)	11-1-64	6.4 miles grade and drain. (S. of Hamilton E.).
239	S 426 (3)	8-31-64	One 198 ft. prestressed concrete beam bridge - Gallatin River.
247	S 368 (17)	7-16-64	8.7 miles aggregate, plant mix bituminous surfacing & seal coating. (N. of Glasgow).
248	S 402 (3)	5-15-64	7.8 miles grade, drain, surface, plant mix bituminous & seal coat oiling. (N.E. of Culbertson).
	S 121 (4)	5-15-64	11.6 miles (1.0 mile grade & drain) aggregate & plant mix bituminous surfacing. (Utica to Hobson).
	S 322 (7)	5-15-64	6.3 miles grade, drain, surface & plant mix bituminous surfacing. (E. of Hardin).
	OFF SYSTEM PROJECTS		
304	FHP 59-2 (1) & FL 59 (1),(2)*	1964	8.7 miles grading, drainage, aggregate & plant mix bituminous surfacing. (S. of Red Lodge).

* - Bureau of Public Roads Projects.
** - Bureau of Public Roads Projects. - Map Index Numbers 128 & 211 one contract.

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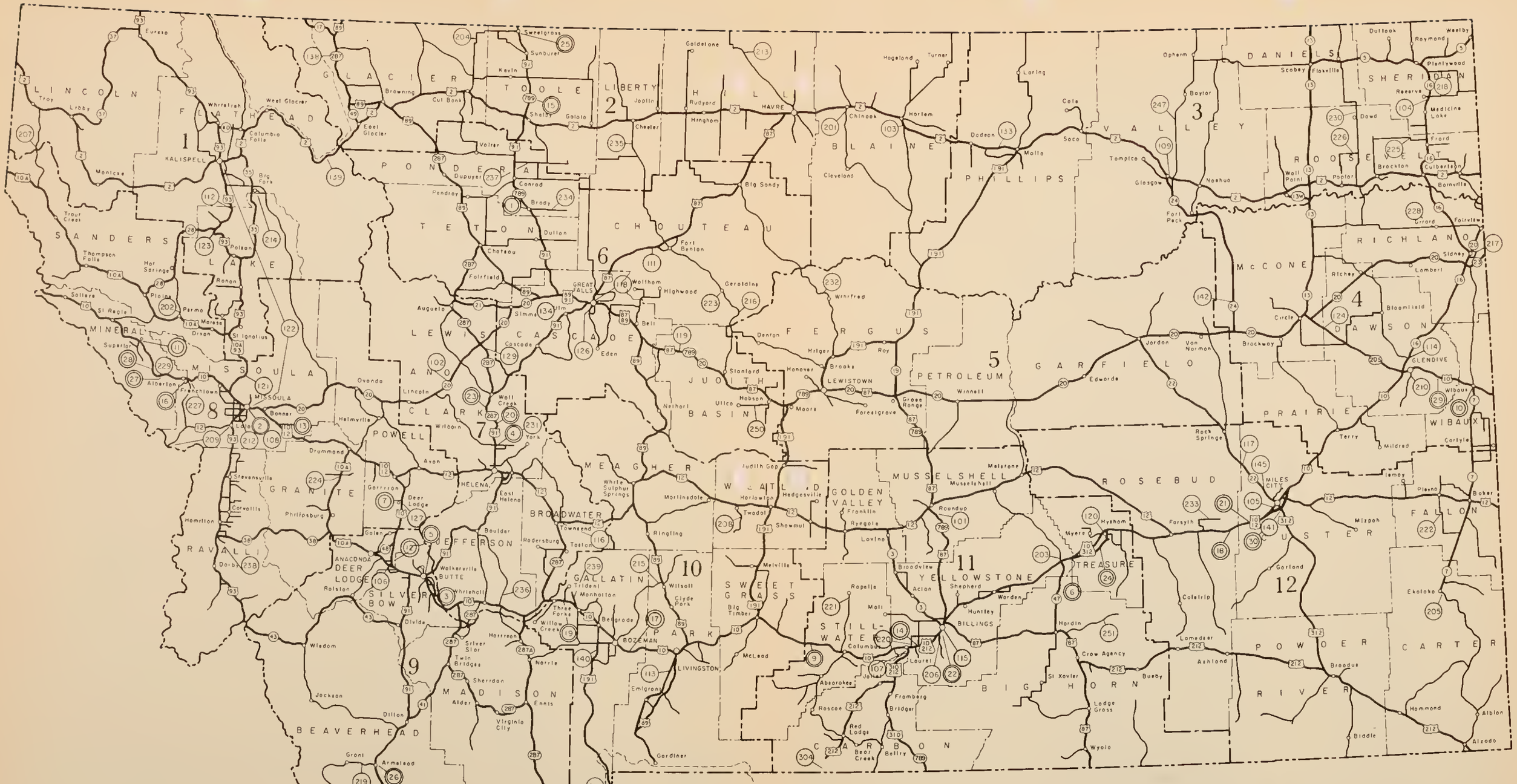


LEGEND

- (3) INDEX NUMBER (Details reverse of sheet)
- (10) U S NUMBERED PRIMARY HIGHWAY
- MONTANA NUMBERED PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- 10 FINANCIAL DISTRICT NUMBER

PROJECTS UNDER CONTRACT

MONTANA HIGHWAY COMMISSION

MARCH 27, 1964 (Includes contracts let March 25, 1964)

MAP INDEX NUMBER	PROJECT NUMBER	PROBABLE COMPLETION DATE	LENGTH , TYPE OF CONSTRUCTION AND LOCATION
	FEDERAL AID INTERSTATE PROJECTS		
1	I 15-6 (5) 311 U 1 &	7-1-64	11.6 miles grade, drain, surface & plant mix bituminous surfacing. (U.S. 91 - Brady S. to N.).
	I 15-7 (3) 312 U 1		
	I 15-6 (5) 312 U 2	7-1-64	1.0 mile fencing. (U. S. 91 - Brady S. to N.).
	I 15-7 (3) 312 U 3	7-1-64	10.6 miles fencing. (U. S. 91 - Brady S. to N.).
	I 15-7 (3) 312 U 2	5-15-64	Two prestressed concrete bridges. One 183 ft. Brady Interchange & one 153 ft. County Road Separation. (U.S. 91-Brady S. To N.
	I 15-6 (6) 311 &	7-1-64	11.6 miles signing & delineation. (U.S. 91 - Brady S. To N.).
	I 15-7 (4) 312		
	I 15-6 (7) 311	5-15-64	1.0 mile seeding & mulching. (U.S. 91 - Brady S. To N.).
	I 15-7 (5) 312	5-15-64	10.6 miles seeding & mulching. (U.S. 91 - Brady S. To N.).
2	I 90-2 (14) 105	7-31-64	472 ft. of 24 inch R.C.P. Storm Sewer. (Van Buren St. - In Missoula).
	I-IG 90-2 (14) 105 U 2	6-30-65	Three dual prestressed concrete beam overpasses. Two 165 ft. - Van Buren St. Interchange. Two 194 ft. - East Missoula Interchange. Two 136 ft. - County Road Separation.
3	I 90-4 (8) 226 U 1	9-30-65	2.8 miles four lane divided, grade, drain, cement stabilized base, aggregate surface, plant mix bituminous surface & concrete pavement. (New alignment 190-Butte S.E.).
	I 90-4 (8) 226 U 2	5-30-65	2.8 miles fencing. (New alignment-Butte S.E.).
	I 90-4 (8) 226 U 3	7-31-64	One 246 ft. prestressed concrete beam underpass-County Road Separation. (New alignment I 90-Butte S.E.).
4	I 15-4 (6) 186 U 4	5-15-64	8.2 miles fencing & cattle guards. (I 15 - Helena N.).
	I 15-4 (6) 186 U 5	9-15-64	8.2 miles seel coat oiling. (I 15 - Helena N.).
	I 15-4 (11) 182	5-15-64	28.2 miles seeding & mulching. (115 - S. of Helena N.).
	I 15-4 (15) 186	5-15-64	8.2 miles signing. (I 15-Helena N.).
5	I-IG 15-2 (16) 126 U 1 &	9-30-64	2.6 miles grading, drain, surface, concrete paving, plant mix bituminous & seal coat oiling. (I 15-Butte N.).
	I 115-2 (2) 126 U 1		
	I-IG 15-2 (16) 126 U 2 &	9-30-64	Five structures. Two prestressed concrete beam overpasses, One 301 & 321 BAAP MY. & CMSTP&P RR. Three steel & concrete overpasses. One 442 & 489 ft. NP RY & Clark Fork. One 244 ft. W. Butte Interchange. (I 15-Butte N.).
	I 115-2 (2) 126 U 2		
	I-IG 15-2 (16) 126 U 3	9-30-64	2.2 miles fencing. (I 15-Butte N.).
	I 115-2 (2) 126 U 3	9-30-64	0.4 miles fencing. (I 15-Butte N.).
	I-IG 15-2 (16) 126 U 4	5-15-64	Dual 463 ft. steel & concrete overpasses - NP RY & CMSTP&P RR, (I 15-Butte W.).
	I-IG 15-2 (18) 131 U I	7-31-66	3.6 miles grade, drain, cement stabilized base, aggregate & plant mix bituminous surfacing. One 230 ft. steel & concrete overpass NP RY. Signing. (New alignment I 15-Butte N.E.).
	I-IG 15-2 (18) 131 U 2	9-30-65	3.6 miles fencing. (New alignment I 15-Butte N.E.).
	I 15-2 (19) 126	10-15-64	5.5 miles signing, delineation & lighting. (I 15-W. of Butte E.).
	I 15-2 (20) 127	5-15-64	3.5 miles grass seeding. (New alignment I 15-Butte E.).
6	I 94-1 (7) 50	10-30-64	1.3 miles signing & delineation. (New alignment-I 94- S.W. of Hysham).
	I 94-2 (5) 55 U 1	5-15-64	6.4 miles (4.0 miles four-lane divided) grade, drain, surface, plant mix bituminous surfacing. (New alignment-I 94-S.W. of Hysham).
	I 94-2 (5) 55 U 2	5-15-64	6.4 miles fencing. (New alignment-I 94-S.W. of Hysham).
	I 94-2 (7) 51	10-30-64	16.2 miles signing & delineation. (New alignment-I 94-S.W. of Hysham).
7	I 90-3 (11) 180	5-15-64	8.6 miles seeding & mulching. (U.S. 10-W.&S. of Deer Lodge).
9	I 90-7 (8) 387 U 1 &	5-15-64	5.9 miles grade, drain, surface, plant mix bituminous & seal coat oiling. (U.S. 10-W. of Columbus).
	I-IG 90-8 (12) 388 U 1		
	I-IG 90-8 (12) 388 U 2	5-15-64	4.6 miles grade, drain, surface, plant mix bituminous, seal coat oil. Frontage roads (U.S.10-W. of Columbus).
	I 90-7 (8) 387 U 3	5-15-64	5.9 miles fencing. (U.S. 10-W. of Columbus).
	I-10 90-8 (12) 388 U 4	5-15-64	4.6 miles fencing. (U.S. 10-W. of Columbus).
	I 90-7 (11) 387 &		
	I 90-8 (18) 388	5-15-64	10.5 miles signing & delineation. (U.S. 10-W. of Columbus).
10	I 94-7 (6) 233	5-15-64	15.2 miles seeding & mulching. (U.S. 10-W. of Wibaux E.).
11	I 90-1 (16) 43	8-30-64	6.7 miles seeding & mulching. (U.S. 10-W.&S. of Superior).
12	I-IG 90-4 (7) 205 U 1	9-1-64	4.5 miles four-lane divided, grade, drain, cement stabilized base, surfacing & plant mix bituminous surfacing. Frontage roads. Rest areas, signing & delineation. (U.S. 10-S. of Deer Lodge).
	I-IG 90-4 (7) 205 U 2	6-30-64	Three prestressed concrete beam structures. One 206 ft. Anaconda Interchange. Dual 211 ft overpasses - CMSTP&P RR. (U.S. 10-S. of Deer Lodge).
	I-IG 90-4 (7) 205 U 3	5-15-64	4.5 miles fencing. (U.S. 10-S. of Deer Lodge).
13	I-IG 90-2 (10) 110 U 1	7-1-64	4.3 miles four-lane divided, grade, drain, surface & plant mix bituminous surfacing. (New alignment I 90 - W. of Bonner E.).
	I 90-2 (11) 111 U 1	9-1-64	4.9 miles four-lane divided, grade, drain, surface, plant mix bituminous surface. Frontage roads. (New alignment I 90 - S.E. of Bonner).
	I 90-2 (11) 111 U 2	7-1-64	4.9 miles fencing. (New alignment - S.E. of Bonner).
	I-IG 90-2 (10) 110 U 2	5-15-64	4.3 miles fencing. (New alignment - W. of Bonner E.).
	I-IG 90-2 (10) 110 U 3	7-31-64	Eight structures. Dual 343 ft. Steel Plate Girder-Blackfoot River. Six prestressed concrete beams, dual 153 ft. - CMSTP&P RR. Dual 118 ft. frontage road separation. Dual 118 ft.-Turah Interchange. (New alignment I 90 - W. of Bonner E.).
	I 90-2 (20) 110	10-30-64	9.2 miles signing & delineation. (New alignment I 90 - W. of Bonner E.).
	I 90-2 (22) 108	5-31-65	Four continuous welded steel plate girder bridges - Dual 455 ft. & Dual 404 ft. - Clark Fork. (New alignment I 90 - W. of Bonner E.).
	I 90-2 (23) 110	5-31-64	One 245 ft. prestressed concrete beam underpass - U.S. 10. (New alignment I 90 - W. of Bonner E.).
14	I-IG 90-8 (17) 433 U I	9-30-64	5.3 miles four-lane divided, grade, drain, surface, plant mix bituminous surface. Weigh Station. (U.S. 10 - Laurel E.).
	I-IG 90-8 (17) 433 U 2	6-30-64	Eight structures. Two 364-ft. steel overpasses (U.S. 212 - Laurel Interchange) six prestressed concrete beam structures, one 245 ft. county road separation, two 118 ft. Mossmain Interchange & three 40 ft. BB&A Canal. (U.S. 10 - Laurel E.).
	I-IG 90-8 (17) 433 U 3	9-30-64	5.3 miles fencing. (U.S. 10 - Laurel E.).
15	I 15-8 (14) 357 U 1	11-1-64	12.0 miles grade, drain, surface, plant mix bituminous surface, rest area & signing. (U.S. 91 - N. of Shelby).
	I 15-8 (14) 357 U 2	12-31-64	Two prestressed concrete beam structures, one 168 ft. Co. Rd. Interchange, One 118 ft. Oilmont Interchange. (U.S. 91 - N. of Shelby,.
	I 15-8 (14) 357 U 3	5-15-64	12.0 miles fencing. (U.S. 91 - N. of Shelby).
	I 15-8 (15) 357	5-15-64	12.0 miles seeding & mulching. (U.S. 91 - N. of Shelby).
16	I 90-2 (16) 81	9-30-64	One 879-ft. welded steel plate girder bridge - Clark Fork. Dual 123-ft. prestressed concrete beam bridges - Nine Mile Interchange. (U.S. 10-E. of Alberton).
	I-IG 90-2 (18) 82	11-30-64	One 981 ft. welded steel plate girder bridge - Clark Fork & CMSTP&P RR. (U.S. 10-E. of Alberton).
	I-IG 90-2 (21) 80 U I	11-15-64	4.3 miles (2.6 miles four-lane divided) grade, drain, surface, plant mix bituminous surface. Signing. (U.S. 10-E. of Alberton).
	I-IG 90-2 (21) 80 U 2	11-15-64	4.3 miles fencing. (U.S. 10-E. of Alberton).
	I 90-1 (23) 75	5-15-64	2.8 miles seeding & mulching. (U.S.10-Alberton W.).
	I 90-2 (26) 78	5-15-64	2.2 miles seeding & mulching. (U.S.10-Alberton E.).
17	I 90-6 (12) 309	5-15-64	5.3 miles seeding & mulching. (U.S.10-E. of Bozeman).
	I-IG 90-6 (2) 309 U 3	9-15-64	5.3 miles seal coat oiling. (U.S. - E. of Bozeman).
18	I 90-3 (8) 114	5-15-64	4.9 miles seeding & mulching. (U.S. 10-E. of Forsyth).
19	I-IG 90-6 (9) 276	6-30-64	Dual 735 & 624-ft. prestressed concrete beam structures-CMSTP&P RR., NP RY., & Madison River. (U.S. 10-E. of Three Forks).
	I-IG 90-6 (10) 282 U 1	7-31-64	5.0 miles four-lane divided, grade & drain. Three prestressed concrete beam structures. Dual 158 ft. CMSTP&P Rd. One 235 ft. Manhattan Interchange. (U.S. 10-E. of Three Forks).
	I-IG 90-6 (10) 282 U 2	7-31-64	5.0 miles fencing. (U.S. 10-E. of Three Forks).
	I-IG 90-6 (15) 276	9-28-64	10.5 miles cement stabilized base, aggregate surfacing, concrete pavement & signing. (U.S. 10-E. of Three Forks).
	IG 90-6 (11) 287	7-31-64	Dual 163 ft. prestressed concrete beam overpasses-NP. RY. (U.S. 10-E. of Three Forks).
20	I 15-4 (16) 194	5-15-64	12.7 miles signing. (U.S. 91-Helena N.).
	I 15-4 (17) 204	5-15-64	3.4 miles signing. (U.S. 91-Helena N.).
	I 15-4 (9) 194 U 3	9-15-64	12.7 miles seal coat oiling. (U.S. 91-N. of Helena).
	I 15-4 (12) 207 U 3	9-15-64	3.4 miles seel coat oiling. (U.S. 91-N. of Helena).
21	I 94-4 (11) 119	5-15-64	28.7 miles seding & mulching. (U.S. 10-W. of Miles City E.).
22	I 90-8 (11) 444	5-15-64	Dual prestressed concrete beam bridges, 185 & 190 ft.-West Billings Interchange. (U.S. 10-S.W. of Billings).
	I 90-8 (25) 438	9-1-64	6.1 miles signing & delineation. (U.S. 10-S.W. of Billings).
	I 90-8 (19) 443 U 1	9-1-64	1.2 miles grade, drain, aggregate & plant mix bituminous surface. Signing & delineation. (U.S. 10-West Billings Interchange).
	I 90-8 (19) 443 U 2	9-1-64	1.2 miles fencing. (U.S. 10-West Billings Interchange).
23	I 15-4 (18) 210 U 1 &	11-30-64	2.1 miles four-lane divided, grade, drain, surface, plant mix bituminoe surfacing & signing. (U.S. 91-S. of Wolf Creek).
	I 15-4 (21) 210		
	I 15-4 (18) 210 U 2	11-30-64	2.1 miles fencing. (U.S. 91-S. of Wolf Creek).
	I-IG 15-4 (19) 211	7-31-64	Four prestressed concrete beam structures, dual 534 ft. Spring Creek Interchange, GN RY & Prickly Pear Creek, dual 135 ft Lyons Creek Separation. (U.S. 91-S. of Wolf Creek).
	I 15-4 (20) 212 U 1	9-30-64	5.8 miles grade, eggregate surface, plant mix bituminous surface & signing. Rest Area. (U.S. 91-Wolf Creek S.).
	I 15-4 (20) 212 U 2	9-30-64	5.8 miles fencing. (U.S. 91-Wolf Creek S.).
	I 15-4 (20) 210	11-30-64	Dual 519 ft. Steel Bridge-Little Prickly Pear Creek. (U.S. 91-wolf Creek S.).
24	I 94-2 (6) 61 U 1	9-1-64	5.6 miles grade, drain, surface & plant mix bituminous surfacing. One 143 ft. prestressed concrete beam overpass-Hysham Interchange. (New alignment I 94 - S.W. of Hysham).
	I 94-2 (6) 61 U 2	9-1-64	5.6 miles fencing. (New alignment I 94-S.W. of Hysham).
25	I 15-8 (11) 383 U 2	5-15-64	4.5 miles fencing. (U.S. 91-Sweetgrass S.).
	I 15-8 (11) 383 U 1	11-15-64	4.5 miles (1.2 miles four-lane divided) grade, drain, plant mix bituminous surfacing & signing. One 256 ft. prestressed concrete beam bridge-Sweetgrass Interchange. (U.S. 91-Sweetgrass S.).
	I 15-8 (16) 383	5-15-64	4.5 miles seeding & mulching. (U.S. 90-Sweetgrass S.).
26	I 15-1 (17) 46 U 1	9-30-64	5.3 miles grade, drain, surface, plant mix bituminous surface. One 17 ft. concrete slab junior grade separation & signing. (U.S. 91-Armstead N.).
	I 15-1 (17) 46 U 2	7-31-64	One 401 ft. welded plate girder & one 163 ft. prestressed concrete beam oridge - Beaverhead River. (U.S. 91-Armstead N.).
	I 15-1 (17) 46 U 3	9-30-64	5.3 miles fencing. (U.S. 91-Armstead N.).
27	I 90-1 (21) 67	6-30-65	One 807 ft. continuous welded plate girder bridge-Clark Fork. (U.S. 10-W. of Alberton).
	I 90-1 (22) 71	7-31-65	One 762 ft. continuous welded plate girder oridge-Clark Fork. (U.S. 10-W. of Alberton).
	I-IG 90-1 (27) 65 U 1	11-15-65	6.6 miles grade, drain, aggregate & plant mix bituminous surfaco. Signing. (U.S. 10-W. of Alberton).
	I-IG 90-1 (28) 72 U 1	11-15-65	3.7 miles grade, drain, aggregate & plant mix bituminous surface. Frontage Road. Rest Areas. Signing. (U.S. 10-W. of Alberton).
	I-IG 90-1 (27) 65 U 2	5-30-65	6.6 miles fencing. (U.S. 10-W. of Alberton).
	I-IG 90-1 (28) 65 U 2	5-30-65	3.7 miles fencing. (U.S. 10-W. of Alberton).
	I-IG 90-1 (26) 66	6-30-65	Three structures. One 445 ft. steel & concrete overpass-CMSTP&P RR. and Frontage Road. One 338 ft. steel & concrete overpas NP RY. One 198 ft. prestressed concrete underpass-Fish Creek Interchange. (U.S. 10-W. of Alberton).
	I-IG 90-1 (29) 71	9-30-64	One 190 ft. prestressed concrete beam overpass - NP RY. (U.S. 10-W. of Alberton).
28	I 90-1 (25) 59	10-31-65	One 826 ft. welded plate girder bridge - Clark Fork. (U.S. 10-S.W. of Superior).
	I 90-1 (24) 54	8-31-65	One 757 ft. welded plate girder bridge - Clark Fork (U.S. 10-S.W. of Superior).
29	I 94-6 (7) 216	7-15-65	4.2 miles signing. (U.S. 10-E. of Glendive).
	I 94-6 (8) 221 U 1	7-15-65	12.8 miles grade, drain, aggregate & plant mix bituminous surface. Widen one 106-ft.-Griffith Creek. One 123 ft. prestressed concrete beam bridge-Hodges Road Separation. (U.S. 10-E. of Glendive). Signing & delineation.
	I 94-6 (8) 221 U 2	7-15-65	12.8 miles fencing. (U.S. 10-E. of Glendive).
30	I 94-4 (13) 136	5-15-64	0.5 miles reshaping & placement of bank protection on Tongue River Channsl. (I 94-S. of Miles City).

MAP INDEX NUMBER	PROJECT NUMBER	PROBABLE COMPLETION DATE	LENGTH , TYPE OF CONSTRUCTION AND LOCATION
	FEDERAL AID PRIMARY PROJECTS		
101	F 33 (6) & F 108 (9)	9-30-64	8.0 miles grade, drain, aggregate & plant mix bituminous surface. (U.S. 87-S. of Roundup).
102	F 50 (10) & F 267 (13)	10-15-64	9.2 miles aggregate & plant mix bituminous surfacing. (Montana 20-E. of Lincoln).
103	F 152 (7) U 2	8-31-64	One 213 ft. prestressed concrete beam bridge-Milk River. One large structural plate pipe-Indian Service Irrigation Canal. (U.S. 2-S. of Harlem).
	F 193 (13)	5-15-64	11.6 miles grass seeding. (Montana 12-Medicine Lake N.).
	F 135 (18)	5-15-64	0.6 miles seeding & mulching. (U.S. 10-W. of Miles City).
	F-FG 68 (12) U 1	7-1-64	2.7 miles (four-lane divided) grade, drain, surface, plant mix bituminous surface. Signing & delineation. (U.S. 10A-E. of Anaconda).
	F-FG 68 (12) U 2	5-15-64	Four prestressed concrete beam bridges, dual 170 ft. Clark Fork & dual 148 ft. NP RY. (U.S. 10A-E. of Anaconda).
	ROW-F-FG 68 (8)	5-15-64	2.7 miles fencing. (U.S.10A-E. of Anaconda).
107	F 136 (6)	9-30-64	0.7 miles grade, drain, surface & plant mix bituminous surface. (U.S. 212-Laurel S.).
108	F 219 (18)	8-15-64	0.2 miles grade, drain, aggregate & plant mix bituminous surface. One 65 ft. prestressed concrete beam bridge-Rattlesnake Creek. (U.S. 10-in Missoula).
109	F 144 (8)	5-15-64	4.7 miles grass seeding. (U.S. 2-Glasgow E.).
111	F 149 (19) & F 252 (15)	9-15-64	9.8 miles grade, drain, surface & plant mix bituminous surface. (U.S. 87-S.W. of Fort Benton).
112	F 191 (24)	8-31-65	5.9 miles grade, drain, aggregate & plant mix bituminous surfacing. (U.S. 93-S. of Kalispell).
	F 191 (19) U 2	9-15-64	5.5 miles seal coat oiling. (U.S. 93-S. of Kalispell).
113	F 217 (11)	10-15-65	9.2 miles grade, drain, aggregate & plant mix bituminous surface. Relocate portion of NP RY tracks. (U.S. 89-S. of Livingston).
114	F 245 (16)	10-30-64	5.1 miles grade, drain, aggregate & plant mix bituminous surface. One 112 ft. prestressed concrete beam bridge-Deer Creek. (Montana 10-W.E. of Glendive).
115	U FG 228 (16)	5-15-64	1.5 miles grade, drain, cement stabilized base, surface, concrete pavement, plant mix bituminous, seal coat oil. One concrete underpass - NP RR. (U.S. 10-In Billings).
	F 228 (19) U 1	9-1-64	0.6 mile grade, drain, aggregate & plant mix bituminous surface. Signing & delineation. (U.S. 10-West Billings Interchange).
	F 228 (19) U 2	9-1-64	0.6 miles fencing. (U.S. 10-West Billings Interchange).
	F 228 (21)	5-31-64	1.5 miles signing, signals & lighting. (U.S. 10-In Billings).
116	F 264 (8)	10-31-64	6.4 miles grade, drain, aggregate & plant mix bituminous surfacing. (U.S. 12-Townsend E.).
117	F 157 (16) U 3	9-15-64	5.0 miles seal coat oiling. (Montana 22-N.W. of Miles City).
118	F 149 (20)	6-30-64	0.4 miles signing & delineation. (U.S. 87-N. of Great Falls).
	F 395 (3) & F 395 (5)	6-30-64	1.5 miles signing & delineation. (14th & 15th St. - In Great Falls).
119	F 235 (25)	5-15-64	7.6 miles grade, drain, surface, plant mix bituminous surface. One 81 ft. prestressed concrete beam bridge-Otter Creek. (U.S. 87-N. of Stanford).
	F 235 (31)	5-15-64	4.0 miles plant mix bituminous surface. (U.S. 87-N. of Stanford).
120	F 114 (5)	9-1-64	2.4 miles grade, drain, surface & plant mix bituminous surfacing. (Hysham connection to Interstate).
	F 114 (6)	10-30-64	2.4 miles signing & delineation. (U.S. 10-Hysham Connection to Interstate 94).
121	F FG 219 (16) U 1	5-15-64	9.8 miles grade, drain surface & plant mix bituminous surfacing. (U.S. 10A - N.W. of Missoula).
	F 219 (19)	5-15-64	9.8 miles seeding & mulching. (U.S. 10A-N.W. of Missoula).
122	F 9999 (1)	5-15-64	119 miles eigning. (U.S. 10,10A, & 93-Missoula to Kalispell).
123	F 191 (20) U 1	5-15-64	7.3 miles (2.5 miles grade & drain) surface, plant mix bituminous & seal coat oiling. (U.S., 93-N. of Polson).
124	F 246 (13)	11-15-64	9.2 miles grade, drain, aggregate & plant mix bituminous surfacing. (Montana 200-S.E. of Circle).
126	U 227 (6) & F 388 (6)	5-15-64	2.6 miles street widening, curbe, plant mix bituminous surfacing, traffic signals & signing. (10th Avenue S.ByPass-In Great Falls).
	F 388 (7)	6-30-64	0.6 miles highway lighting. (10th Avenue S.-In Great Falls).
127	F 184 (15)	5-15-64	1.1 miles seeding & mulching. (U.S. 10-N. of Deer Lodge).
128	ERFO 41 (1) **	1964	1.0 miles grade, drain, aggregate & plant mix bituminous surfacing. One 30 ft. concrete slab bridge-Cougar Creek. (U.S. 191-N. of W. Yellowstone).
129	F 238 (8) U 3	7-15-64	8.5 miles seal coat oiling. (Montana 287-N. of Wolf Creek).
133	F 153 (9)	5-15-64	9.0 miles grass seeding. (U.S. 2-E. of Dodson).
134	F 176 (7)	7-30-64	5.3 miles grade, drain, surface & plant mix bituminous surfacing. (Montana 20-E. of Sizzs).
138	F 210 (3)	5-15-64	6.0 miles plant mix bituminous surfacing. (U... 89-N.W. of Browning).
	F 227 (5)	5-15-64	4.0 miles plant mix bituminous surfacing. (U.S. 89-N.E. of Browning).
	F 227 (6)	5-15-64	4.3 miles grade, drain, surface, & plant mix surfacing. (U.S. 89-N.W. of Browning).
139	FHP 13-3 (1)*	1964	4.1 miles grade, drain & base. One 80 ft. reinforced concrete bridge-Bear Creek. One 26 ft. concrete slab bridge - Devil Creek. (U.S. 2-S.E. - E. Glacier).
140	F 209 (4)	9-15-64	5.5 miles grade. drain, aggregate & plant mix bituminous surface. Four 20 ft. concrete bridges. (U.S. 191-W. of Bozeman).
141	F 86 (22)	5-15-64	0.8 miles seeding & mulching. (U.S. 10-S.W. of Miles City).
142	F 315 (17)	5-15-64	12.0 miles grass seeding. (Montana 24-S.E. of Fort Peck).
	F 315 (18)	5-15-64	11.4 miles grass seeding. (Montana 24-S.E. of Fort Peck).
145	F 157 (19)	7-15-64	10.9 miles, grade, drain, surface, & plant mix bituminous surface. Widen one 164 ft. Concrete I Beam Bridge to 28 ft. roadway. S. Fork Sunday Creek. One 122 ft. prestressed concrete beam bridge - N. Fork Sunday Creek. (Montana 22-N.W. of Miles City).
	FEDERAL AID SECONDARY PROJECTS		
201	S 311 (5)	8-31-64	0.9 miles grade, drain, aggregate & road mix bituminous surface. One 213 ft. prestreseed concrete beam bridge-Milk River. (S. of Chinook).
	S 58 (6)	8-31-65	1.1 mile grade, drain, aggregate & plant mix bituminous surface. One 050 ft. welded steel plate girder bridge-Flathead River. One 128 ft. prestressed concrete beam overpass - NP RY. (Perma North).
	S 236 (8)	8-30-64	1.2 miles grade, drain, surface. One 362 foot riveted plate girdar bridge. (N. of U.S. 10 & Montana 47).
204	S 316 (11)	9-30-64	7.6 miles grade, drain, aggregate & plant mix bituminous surfacing. (N. of Cut Bank).
205	S 318 (4) & S 347 (11)	8-31-65	8.2 miles grade, drain, aggregate & plant mix bituminous surfacing. (Ekalaka S.).
	S 318 (3) & S 347 (10)	8-31-64	8.2 miles fencing. (Ekalaka S.).
206	S 192 (3)	5-15-64	Dual prestressed concrete beam bridges - I 90 Separation. (S.W. of Billings).
	S-SG 192 (4) U 1	9-1-64	1.0 miles grade, drain, aggregate & plant mix bituminous surface. Signing & delineation. (Connection to W. Billings Interchange).
	S-SG 192 (4) U 2	9-1-64	1.0 miles fencing. (Connection to W. Billings Interchange).
	S-SG 192 (5)	9-30-64	One 190 ft. prestressed concrete beam overpass - NP RY. (S.W. of Billings).
207	FAP S-1 (1) 2 (2) *	1964	13.8 miles plant mix bituminous surfacing. (S. of Troy).
208	S 18 (6)	10-30-64	7.3 miles grade, drain, aggregate & plant mix bituminous surface. One 112 ft. prestressed concrete beam bridge-Musselshell River. (Twodot S.).
209	FAP 11-1 (2) *	1964	32.5 miles plant mix bituminous surfecing. (U.S. 12-Lolo to Idaho State Line).
210	S 359 (7)	10-15-64	3.0 miles grade, drain, aggregate & plant mix bituminous surfacing. One 50 ft. treated timber bridge-Drainage. (Glendive S.).
211	ERFO 41 (1) **	1964	15.6 miles grade, drain, aggregate & plant mix bituminous surfacing. Two concrete slab bridges, 75 ft.-Grayling Creek & 124 ft. - Beaver Creek. Widen 83 ft. concrete girder bridges-Cabin Creek. (W.of W. Yellowstone).
212	S-SG 218 (2)	9-30-65	0.6 miles grade, drain, aggregate & plant mix bituminous surfacing. One 34 ft. concrete underpass-Dakota Street. Two 38 ft. steel underpasses - CMSTP&P RR.
	S 218 (7)	6-15-64	1.0 mile grade, drain, aggregate & plant mix bituminous surface. (Russell St.-S. of Missoula).
213	S 301 (13)	9-1-64	5.0 miles grade, drain, aggregate & plant mix bituminous surface. (N.e. of Havre).
214	S 65 (6)	5-15-64	4.7 miles grade & drain. One 245 ft. prestressed concrete beam bridge - Swan River. (S. of Big Fork).
	S 65 (7)	9-15-64	4.9 miles aggregate & plant mix bituminous surface. (S. of Big Fork).
215	ROW S 370 (13)	5-15-64	Reset 239 rods of fencing. (W. of Wilsall).
	S 370 (15)	5-15-64	6.7 miles grade, cement stabilized base, drain, plant mix bituminous & seal coat oiling. (W. of Wilsall).
216	S 307 (14)	9-1-64	0.1 miles grade, drain, aggregate & plant mix bituminous surface. Widen three timber bridges to 28 ft.-Little Battle Creek, two 75 ft.-Butte and Cowboy Steel Creek. (S.E. of Geraldine).
217	S 389 (3)	5-15-64	2.7 miles, grade, drain, bituminous stabilized base, aggregate & plant mix bituminous. (Sidney Loop).
218	S 417 (3)	9-15-64	7.3 miles grade, drain, aggregate & plant mix bituminous surface. (S.E. of Plentywood).
219	S 85(00) U 2 & S 85 (3) U 2	5-15-64	Three prestressed concrete beam bridges, One 92 ft. & 71 ft.-Horse Prairie Creek. One 71 ft.-Medicine Lodge Creek. (Armstead S.).
220	S 192 (7)	9-30-64	3.2 miles grade, drain, aggregate & plant mix bituminous surface. (N.E. of Laurel).
221	S 129 (8)	5-15-64	7.0 miles grade, drain, surface & plant mix bituminous surfacing. (Hapeije S.).
222	S 401 (3) U 1	5-15-64	8.2 miles grade, drain & aggregate surfacing. (Plevna S.).
	S 401 (3) U 2	5-30-64	Two 132 ft. prestressed concrete beam bridges - Sandstone & S. Fk. Sandstone Cr. (Plevna S.).
223	S 290 (16) & S 307 (12)	7-1-64	4.9 miles grade, drain, surface, & plant mix bituminous surfacing. Widen three timber bridges. (N. of Geraldine S.).
224	S 413 (3)	10-30-64	1.9 miles grade, drain, aggregate & plant mix bituminous surface. One 102 ft. prestressed concrete beam bridge - Flint Creek. (S. of Drummond E.).
	S 414 (3)	10-30-64	2.5 miles grade, drain, aggregate & plant mix bituminous surface. (S. of Drummond W.).
	S 413 (2)	8-1-64	1.9 miles fencing. (S. of Drummond E.).
	S 414 (2)	8-1-64	2.5 miles fencing. (S. of Drummond W.).
225	S 200 (5)	5-15-64	13.2 miles (part aggregate surface) plant mix bituminous surfacing. (Froid W.).
226	S 418 (3)	8-31-64	0.7 miles grade, drain & aggregate surface. One 245 ft. prestressed concrete bridge-Poplar River. (N.E. of Poplar).
227	S 407 (2)	10-31-64	0.3 miles grade, drain & aggregate surface. One 457 ft. welded steel plate girder bridge - Clark Fork. (S.E. of Alberton).
228	S 361 (12)	7-15-64	6.6 miles grade, drain, surface, & plant mix bituminous surfacing. (Girard W. to E.).
229	S 419 (3)	11-15-65	0.9 mile grade, drain, aggregate surface. 0.7 mile plant mix bituminous surface. (Approach I 90 Separation-W. of Alberton).
230	S 15 (10)	9-1-64	15.0 miles plant mix bituminous surface. (S. of Plentville).
231	S 2 (15) U 2	9-15-64	1.8 miles seal coat oiling. (N. of Helena).
232	S 68 (5) U 2	9-15-64	13.0 miles seal coat oiling. (Winifred N.).
233	S 259 (2) U 2	9-15-64	9.0 miles seal coat oiling. (N.E. of Forsyth).
234	S 131 (3) U 2	9-15-64	6.5 miles seal coat oiling. (Brady E.).
235	S 339 (9) U 2	9-15-64	6.0 miles seal coat oiling. (S. of Chester).
236	S 9 (10)	8-28-64	3.7 miles reshape, aggregate and plant mix bituminous surface. (South of Boulder).
237	S 107 (9)	11-1-64	7.0 miles grade, drain, aggregate and plant mix bituminous surface. Widen timber bridge to 32 ft. roadway. (N.E. of Conrad).
238	S 400 (3)	11-1-64	0.4 miles grade and drain. (S. of Hamilton E.).
239	S 426 (3)	8-31-64	One 198 ft. prestressed concrete beam bridge - Gallatin River.
247	S 368 (17)	7-16-64	8.7 miles aggregate, plant mix bituminous surfacing & seal coating. (N. of Glasgow).
248	S 402 (3)	5-15-64	7.8 miles grade, drain, surface, plant mix bituminous & seal coat oiling. (N.E. of Culbertson).
	S 121 (4)	5-15-64	11.6 miles (11.6 mile grade & drain) aggregate & plant mix bituminous surfacing. (Utica to Hobson).
	S 322 (7)	5-15-64	6.3 miles grade, drain, surface & plant mix bituminous surfacing. (E. of Herdin).
	OFF SYSTEM PROJECTS		
304	FAP 59-2 (1) 4 FL 59 (1),(2)*	1964	8.7 miles grading, drainage, aggregate & plant mix bituminous surfacing. (S. of Red Lodge).

* - Bureau of Public Roads Projects.
** - Bureau of Public Roads Projects. - Map Index Numbers 128 & 211 one contract.

the fine co-operation and service we received from Dick Dundas, district engineer, and from Jim Killoy, Cliff Dean, and Lowell Smith, who prepared and gave the daily road condition reports.

I need not tell you that this was quite a winter for unusual road conditions, and the service you provided to us so that we could relay it to our listening audience was valuable information for the highway user.

Very truly yours,
SHAG MILLER

The above letter was from station KBOW of Butte.

NEWS FROM THE DIVISIONS

BUTTE

Congratulations to Dick McLees, Rodman from the Butte Division, who was recently married to Sharon McElwee of Manhattan. She was formerly secretary to the Landoe and Gary law office in Bozeman. The Butte Division wishes him and his wife many years of happiness and success.

RETIRED EMPLOYEES FETED

Three employees of the Montana Highway were honored at a dinner party at Lydia's.

Those retiring were Dan Scannell, who has been with the Department since 1930; Everett Castile, with the Department since 1937, and Ray Dugdale, who was with the Department since 1953. More than 60 Department employees, nearly all of them from the Butte Division, attended the dinner.

James Killoy was Master of Ceremonies. Others on the committee were Cliff Dean, Gene Goodland and Emmett Fogarty. Each retiring employee was presented with a savings bond.

Dan Scannell, employed in Butte longer than any other Department employee, recalled earlier days of the Department work here. The shop and storage garage was located on East Silver Street in the basement of the Butte Carriage Building. Later it was moved to the Pittsmont Mine yard. The offices were located in the Owsley Block. In 1940 all branches of the Department were consolidated and moved to the present location at Franklin and LaSalle Streets. Everett Castile told how when he started work, the Division had five trucks and two motor driven patrols. The shop was located at the Pittsmont Mine yard at that time. The Butte Division now has 47 heavy trucks and 16 motor patrols.

The following poem was written by J. B. Rauch, Helena, for the occasion.

The time has come, for more goodbyes.
Retirement beckons for three swell guys.
Friends to all—good neighbors their creed,
So to each we say—good luck—God speed.

The motor patrol will miss old Dan,
He made the grade as few men can.
When the going was tough, as it often is,
The first rig out was most often his.

A Combination Man, they called old Everett.
'Tis a description that fits to a tee.
No matter the job, he did it well
That you can plainly see.

When we locked the joint and put out the lights.
Went home to call it a day.
There was one who protected the diggins,
This fellow is known as Ray.

So we wish for each, your heart's desire,
May the fishin' be good, now that you retire.
The hunting be good—good times be fittin'
— And take time aplenty, just for sittin'.

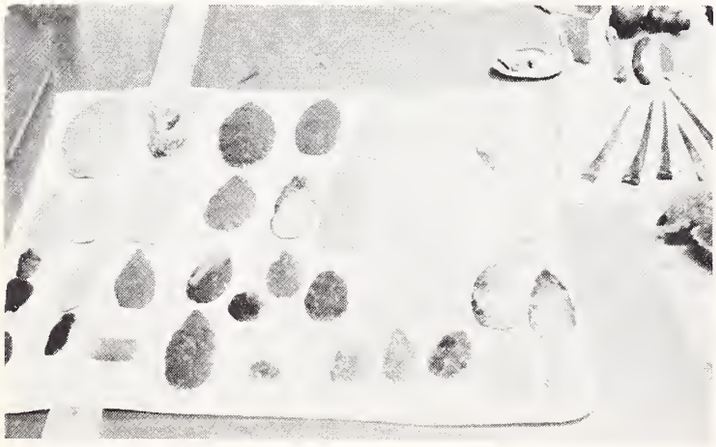
—J. B. Rauch, Helena

GLENDVE

If you are the least bit interested in museum collections of Indian bones, tools and weapons, then you can imagine the excitement felt by Wayne W. Scott, a lab tech, who stumbled onto a rare, almost complete collection of bones and tools, while digging for riprap samples on S302(15), Terry-Brockway project. The bones and various items were found adjacent to the centerline on a rock-capped hill.

The bones are thought to be of an Indian of middle age. They found almost complete

bone structure of the upper part of the body, including most of the skull, full jaw bones with teeth intact, collar bones, shoulder bones, all the ribs, and vertebrae, pelvic bones upper forearm bones, and wrist bones, and other various pieces unidentified, including a toe bone. Complete selection of different sized pieces of short, similarly shaped bones that look as if they might have been part of an ornamental necklace with large shell centerpiece and long teeth that must have also been part of the necklace. Collection of tools in clude five bone needles, 39 stone tools consisting of nine fleshing tools ranging in size from 1½" to 6" and 29 points or knife-like utensils ranging in same size as the fleshing tools and one bone awl about 1½" to 2" long used for drilling holes into leather or stone or wood to lace leather thongs through etc. They also found several flat and smaller bones that resemble dog leg bones and there is a small jaw that could also have been part of the dog.



You can see from the above description that our lab men have reason to be excited and overjoyed in their findings and several of the lab men, along with Mr. Rountree, who is also a "bug" on these Indian relics and findings went back on Saturday and dug some more to see if they could uncover the rest of the body of bones and found additional items, including more of the above knife and utensil collection and a few more bones. We are truly fascinated by these rare items and believe they will be presented to our local museum for safe keeping so that others can admire and enjoy these fine collections.

We have two very sincere apologies to extend to a couple of our new small fry who made their way into the world early this year. First was a charming little miss born to Dana and Darrell Hoover, our stockman, and goes by the name of Lori Joy, and the second was the first baby born in Glendive vicinity in the new year, a little lad by the name of Kelly Earl, born to Jackie and Rusty Wrigg, an Engineering Aide. We had sincerely thought we had included these two small fry in our roster in January issue and wish to make amends by welcoming them into our midst at this time. Also on February 28th, Cathy and Dick Chrest received their fourth girl, Gere Lynn, and congratulations are extended to all three of these lucky parents.

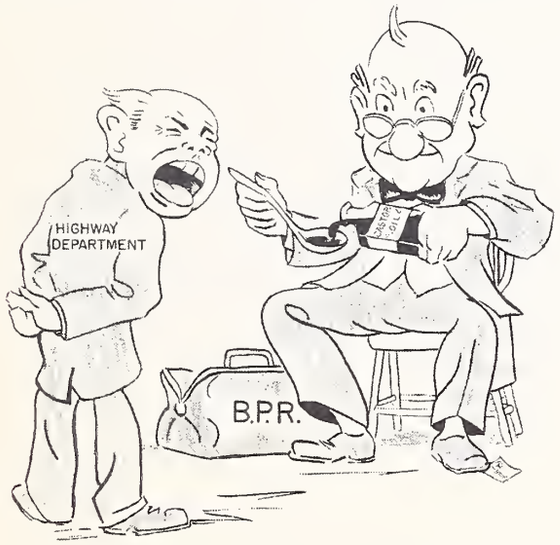
Pictured above is the new two-stall garage structure at Timber Creek, which is a 28x36 combination metal and wood structure erected by Eaton Construction Company of Billings. This was a much needed addition to the Timber Creek storage yard and is greatly appreciated by the sectionman in this locale.

On our sick list for an extended length of time is E. D. (Happy) Welliever, our sectionman in the Wibaux area, who is still recuperating at his home from a heart attack suf-

fered last fall. He is enjoying much better health at present and is up and about and on the road to recovery. We hope he will be back in the swing of things real soon, as we all miss his smiling face and jovial personality around the premises.

A Plan in Hand was made March 12th on a project that has been in the mill for many years, the reconstruction of the Glasgow-Air Force Secondary Road. Those on Plan in Hand were C. J. Thompson, Fred Wells, H. E. Stratton, W. K. Brittain, G. E. Flemming, Dean E. Seiler, and H. T. Anderson of the Bureau of Public Roads. We hope that this project is reconstructed as it was first discussed when Myron Lockey was still working for the highway department.

"B. P. R., Partner or Persecutor"



THE FORGOTTEN MAN

When the long day's work is over
And you go back to town,
You limp into a restaurant
And you find a place to settle down.
You're dusty, hot and sweaty
And as tired as homemade sin
And the waitress looks you over
Like the cats had drug you in.
When the dressed up lads and lassies
Curl their lips and sneer,
Then you know just what they're thinking
You're a G— D— Engineer.

When the contract's going badly
And the Supts. been on a spree,
And there's not a bit of progress made
That anyone can see.
When the truck has knocked the stakes out
And the foreman's just been fired.
And a wild-eyed, drunken skinner's
Got his cat completely mired.
When the equipment's all gone haywire
And the whole job's out of gear,
Who gets the blame for everything?
Sure, the G— D— Engineer!

Yet when cyclones, floods and dust storms
Leave the nation in distress,
When the roads have gone to pieces
And the country's in a mess.
When new bridges, dams and highways
Must be built to save the day,
And someone has to hit the rough
To map "The Right of Way,"
When there's jobs that need a doin'
That fill men's souls with fears,
Then the U. S. sends an S. O. S.
For some G— D— Engineers.

When you go home for the week-end
And your wife is feeling blue,
The kids have caught the measles
And the rent has fallen due,
The yard is rough and wooly
Like it never has been mowed,
And your desk is piled with statements,
For most of the check is owed.
Then the world looks dark and dismal
But there's one thing mighty clear
Life ain't no bed of roses
For a G— D— Engineer!

Public opinion is everything. With public sentiment nothing can fail; without it, nothing can succeed. Consequently, he who molds public opinion goes deeper than he who enacts statutes or pronounces decisions.

—*Abraham Lincoln*

ZIPS, PLEASE!

We would like you to kindly enter your name and old and new address and ZIP CODE number, (we are interested most in the Zip Code number) on the clipout form below and send it to:

Public Information Section
State Highway Department
6th and Roberts
Helena, Montana 59601

— — — — — — — — — — — — — — —

OLD ADDRESS

Name.....

Street.....

City .....

NEW ADDRESS

Name.....

Street.....

City .....

ZIP CODE.....

Work has been progressing steadily in Wolf Creek Canyon has this contract from Lyons Creek to Wolf Creek. The photo much of the work is in rocks. F & S Construction Co. of Butte of the creek and the checks are incidental Mr. Dunkle.

The Center Line
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Helena, Montana

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